



Status of CSISRS/EXFOR compilation

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<http://www.nndc.bnl.gov/exfor>

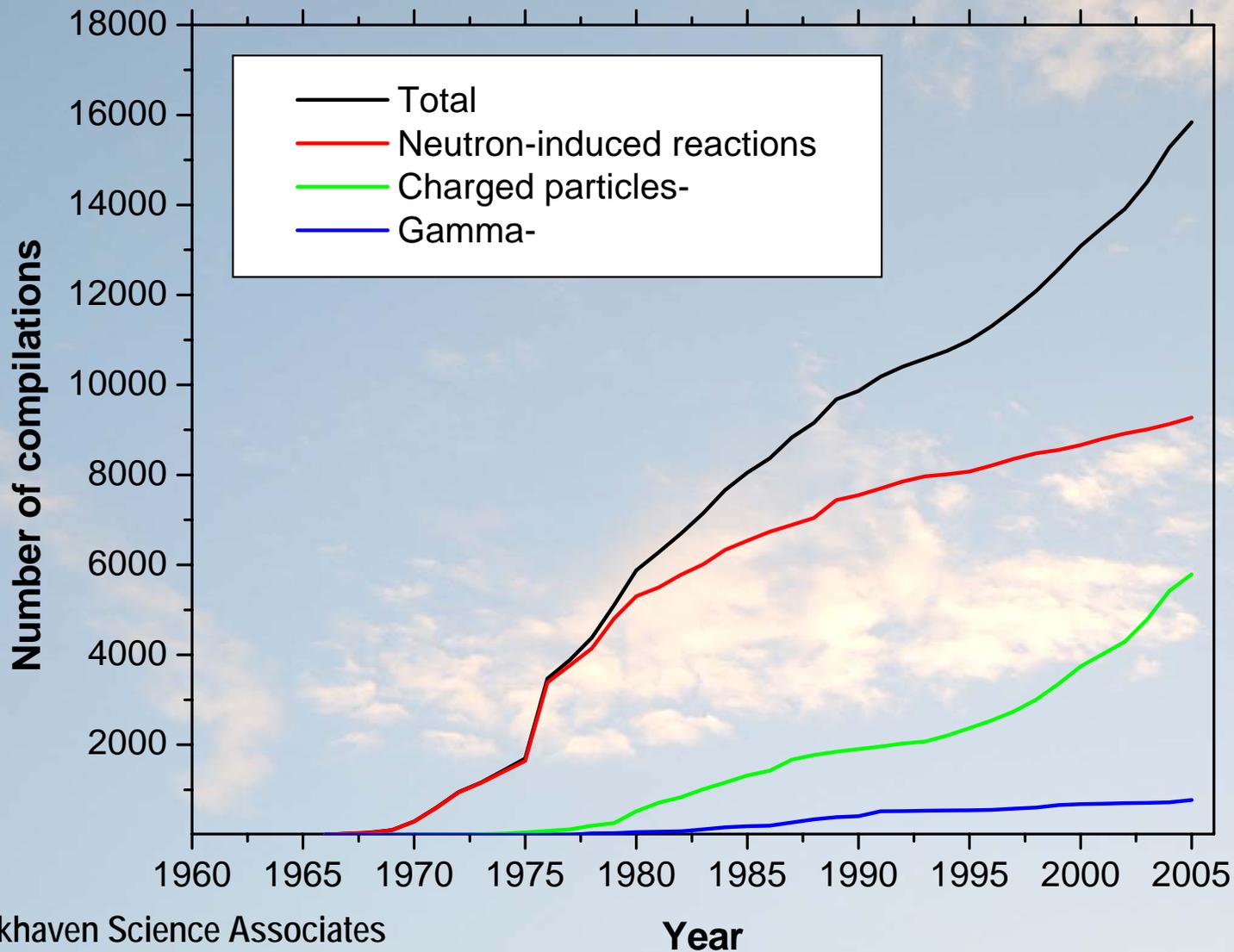


Inside EXFOR

- Library for compilation of experimental nuclear data ($E < 1 \text{ GeV}$)
- **4** main compilation centers (NNDC, NEA-db, NDS and IPPE)
- ~ **15** compilers worldwide
- More than **15 000** publications compiled since 1965
 - **9300** for n-reactions (80-90 % of publications)
 - **5700** for charged particles-reactions (45-55 % of publications)
 - **700** for g-reactions (15-20 % of publications)
- At NNDC, about **100** retrievals per day

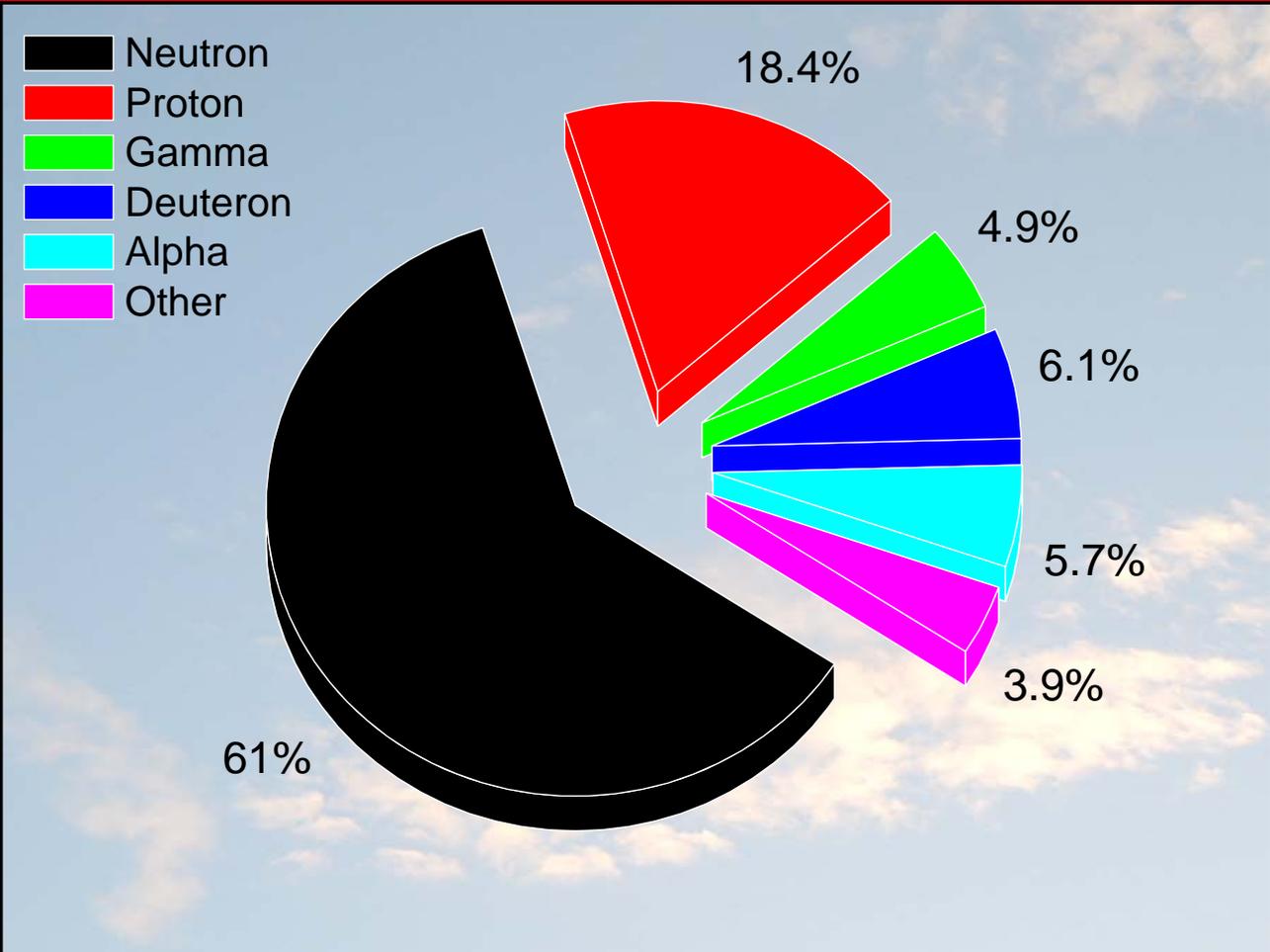


Compilation Effort



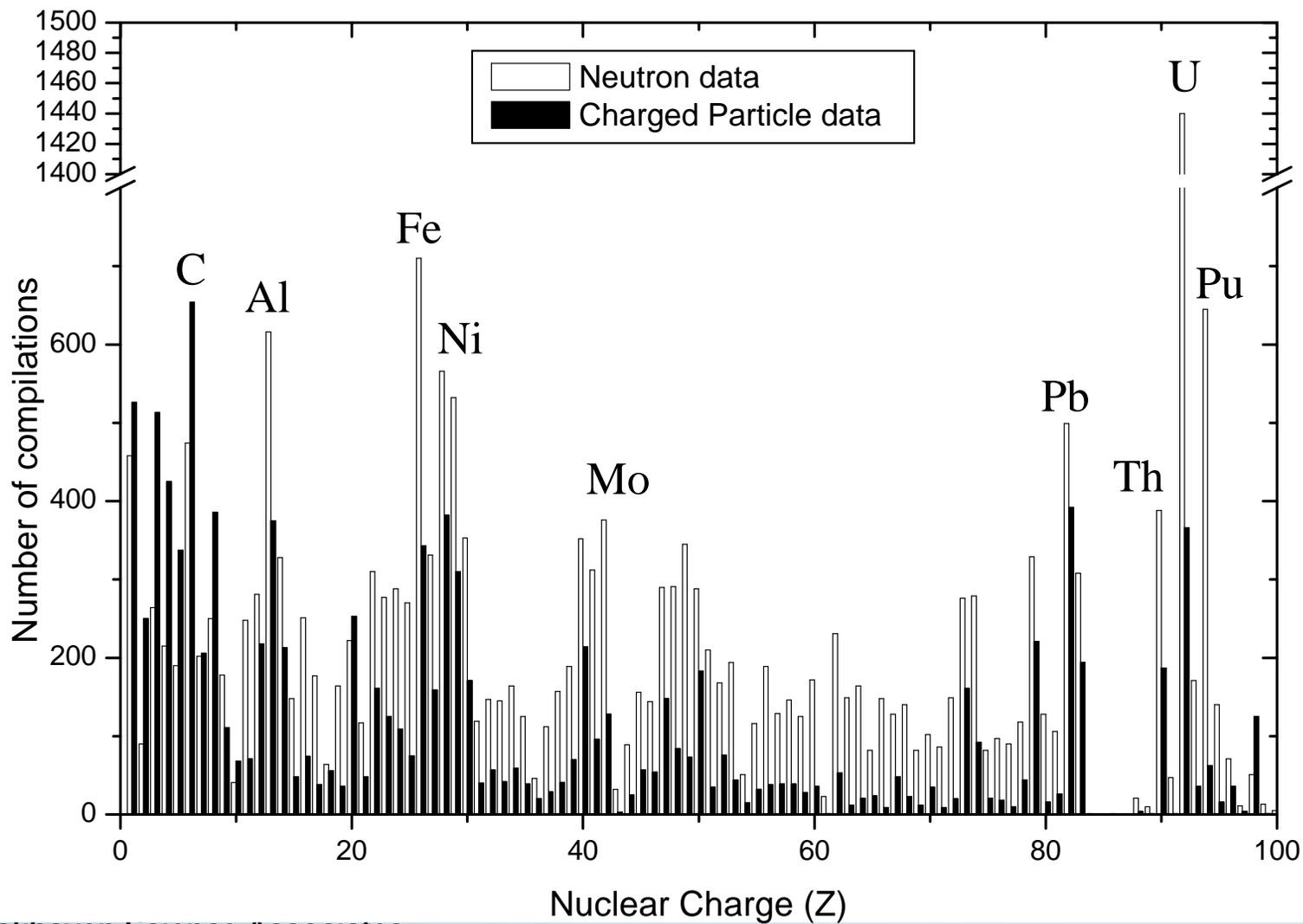


What is in EXFOR ?

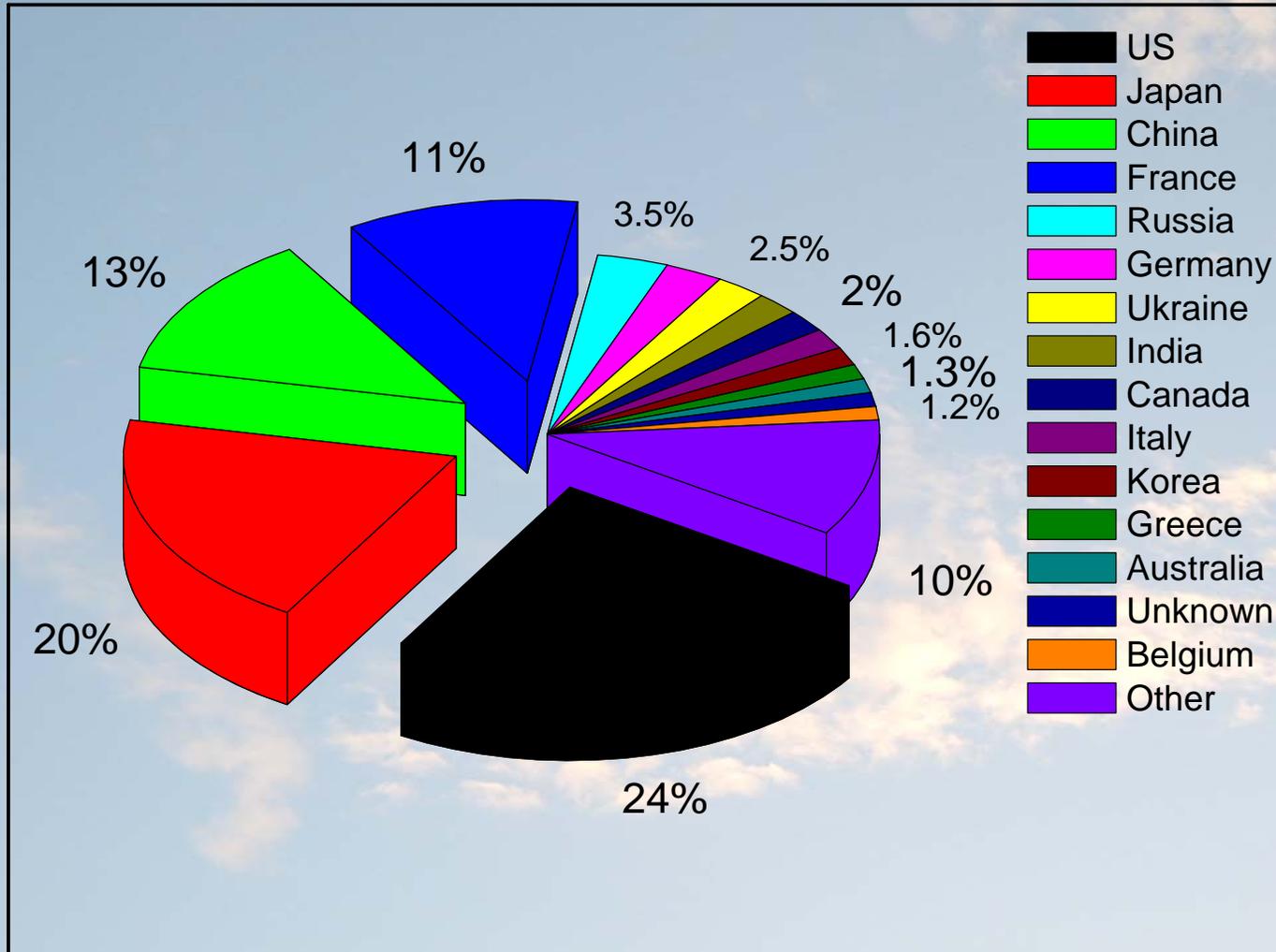


Particle-induced reactions

EXFOR Compilations



EXFOR Users from the World at NNDC



EXFOR Web Interface

<http://www.nndc.bnl.gov/exfor>



NNDC

the
s).

Request #1145

EXFOR Data Search... SQL... Reading...

Results: Reactions: 3 Datasets: 9 Output...

Data Selection

Data for Output: Selected Unselected All

Output Formats: EXFOR Bibliography Plot

Computational Output: 1) TAB 2) C4 +plot

Narrow Energy (optional), eV: Min: Max:

n	Year	Author-1	Energy range, eV	Points	Reference	Display	Accession#
<input checked="" type="radio"/> 1)	92-U-235 (N,F) , , SIG					@i	
	Quantity: [CS] Cross section						
1 <input type="checkbox"/>	1978	M.S.Moore+	1.63e+0 2.46e+4	3777	J, PR/C, 18, 1328, 1978	@i X4 T4	10629004
2 <input type="checkbox"/>	1966	C.D.Bowman+	1.37e+1 7.98e+1	765	C, 66WASH, 2, 1004, 6603	@i X4 T4	12433002
3 <input type="checkbox"/>			2.42e+0 1.29e+1	400		@i X4 T4	003
4 <input type="checkbox"/>			2.78e-1 3.70e+0	293		@i X4 T4	004
5 <input type="checkbox"/>			1.34e-2 2.58e-1	114		@i X4 T4	005
6 <input type="checkbox"/>	1965	E.E.Maslin+	2.53e-2 2.53e-2	1	J, PR/B, 139, 852, 6508	@i X4 T4	21387002
<input checked="" type="radio"/> 2)	92-U-235 (N,F) , , SIG, , AV					@i	
	Quantity: [CS] Cross section						
7 <input type="checkbox"/>	1982	F.Corvi+	2.00e+3 8.50e+4	22	P, NEANDC (E) -232, (3) , 5, 8203	@i X4 T4	21777002
<input checked="" type="radio"/> 3)	92-U-235 (N,F) , , SIG, , FCT					@i	
	Quantity: [CS] Cross section						
8 <input type="checkbox"/>	1978	M.S.Moore+	1.63e+0 2.46e+4	3777	J, PR/C, 18, 1328, 1978	@i X4 T4	10629005
9 <input type="checkbox"/>			1.63e+0 2.46e+4	3777		@i X4 T4	005

@i = Show Summary (with code explanation, links to dependent data, etc)

X4 = EXFOR

T4 = Tabulated Data

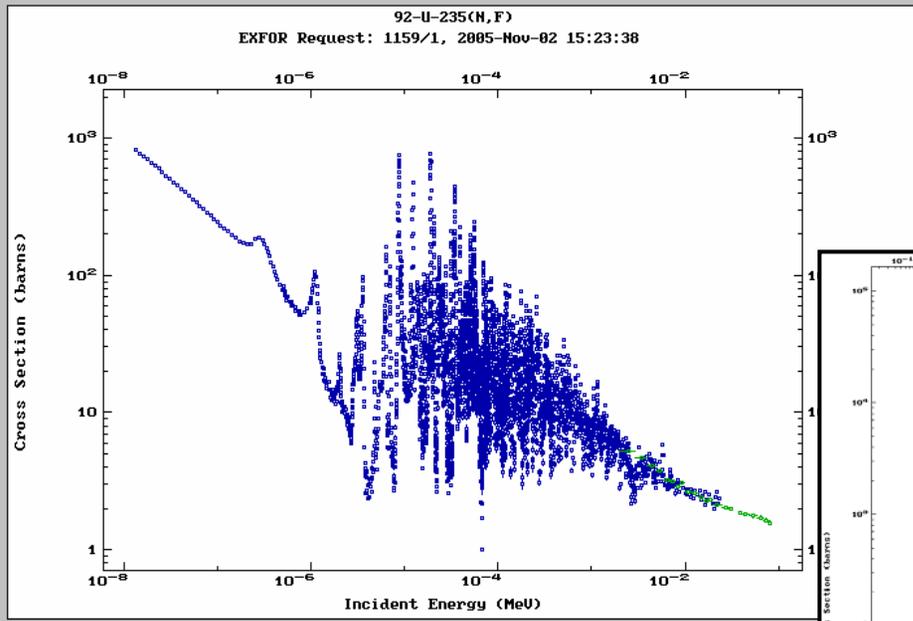


EXFOR Plotting interface

EXFOR Request #1159

Output Data

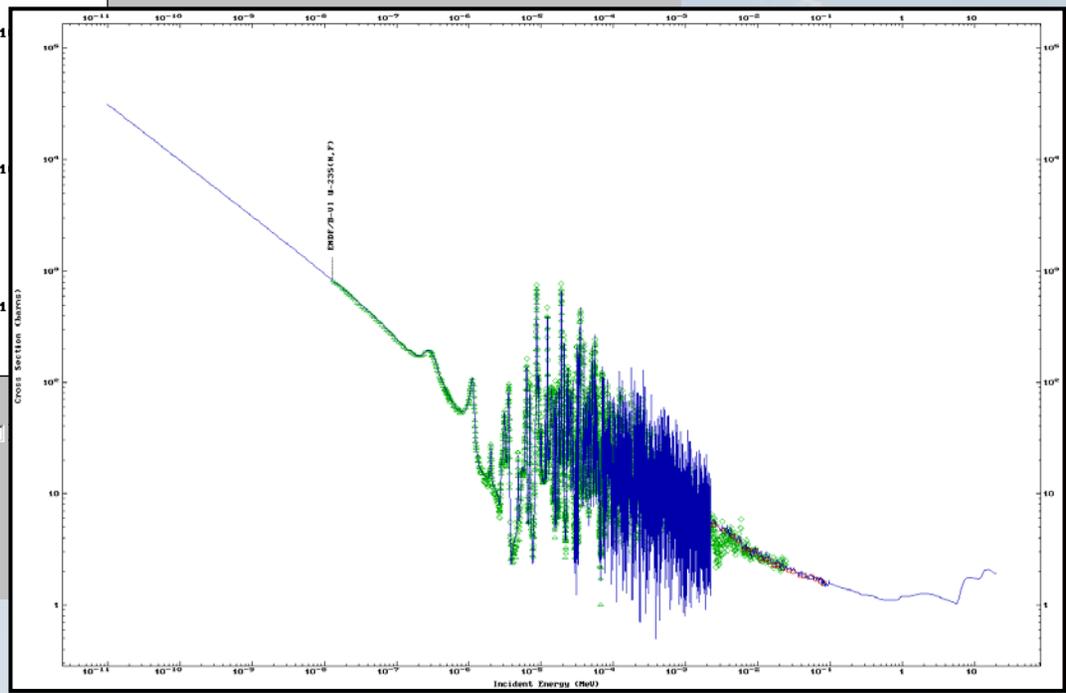
Format	Data (Size)
EXFOR	Text (446Kb) ZIP (66Kb)
Bibliography	html (5Kb)



- 1) 1)X4R1159_x4.tab
- 2) 92-U-235(N,F),,SIG,,AV

Y: Axis: Min: Max: Units:

X: Axis: Min: Max: Units:



Data for plotting: [ZVD](#) (427Kb), [ZIP](#) (62Kb), [send to ZVView](#)

Brookhaven Science Associates

U.S. Department of Energy



EXFOR Improvements !

- **Be closer to the experimental community**
- **Use EXFOR to publish on today's knowledge**
- **Create an easy-to-read format**
- **System of retrieving specific data**
- **Simplify compilation rules**
- **Ideas ?**



Conclusion

- **Increasing number of compilations**
- **Easy plotting between EXFOR and ENDF**
- **New Feedback option to contact compilers**
- **More compilations needed for charged-particles reactions and gamma-induced reactions**
- **Soon: possibility to upload experimental data**